

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Group Art:)
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Examiner:)
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Applicant: Rolf Gnadler et al)
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Serial No.:)
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Filed:)
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For: METHOD AND APPARATUS FOR)
DETERMINING THE ADHESION AND)
ADHESION LIMIT IN THE CASE OF)
VEHICLE TIRES)
)
Attorney Ref.: 705755US1LKM)
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**PRELIMINARY
AMENDMENT**

#8/A

Hon. Commissioner of Patents and Trademarks
Washington, D.C. 20231

Sir:

Prior to examination of the present application, please consider the following.

IN THE CLAIMS

Please delete claims 1-26, and add new claims 27-63 as follows:

27. A method for measuring the adhesion and adhesion limit of a tire of a vehicle in motion comprising:

measuring the driving state of the vehicle with a plurality of driving-dynamics sensors;

determining the state of the roadway with at least one roadway sensor;

evaluating the data of the driving-dynamics sensors and the data of the roadway sensor, a computer using a driving-dynamics simulation model determining the kinematic state of the wheel and the adhesion, taking into account at least one stored tire characteristic diagram comprising tire characteristics and the adhesion limit, and adapting an initial set of basic tire characteristics in the course of operation to characterize the current tire characteristics.

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